

Half-Life Problem #1

- Suppose you have a sample of plutonium-238, which has a half-life of 87.74 years. If only 3.125% of the sample remains radioactive, how old is the sample?

① $100\% \xrightarrow{1} 50\% \xrightarrow{2} 25\% \xrightarrow{3} 12.5\%$
 $\downarrow 4$
 6.25%
 $\textcircled{5}$
 3.125%

② $5 \text{ half-lives} \times \frac{37.74 \text{ y}}{1 \text{ half-life}}$

4 Practice Problems Half Life Answers

N Colangelo



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